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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2024-08-20-11** **Date: 06-05-24**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division,

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04

Agency : Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060

Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-05-24

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification ,
IS 4031 (Part 4,5):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 04-05-24

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.15	–
2	Finess by Air permeablity method (m^2/kg,Min)	282.2	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Technical Manager

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QC ABSTRACT

NAME OF WORK: Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
8	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1

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9	PCC(M10)	Compressive Strength(7days and 28days)	2 sets /6-15 cum	7.2	4	4
10	RCC(M15)	Compressive Strength(7days and 28days)	1 set /1-5 cum	3.27	2	2
11	RCC(M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	4.47	2	2
12	RCC(M25)	Compressive Strength(7days and 28days)	3 sets /16-30 cum	21.26	6	6
13	RCC(M15)	Compressive Strength(7days and 28days)	1 Set		2	2
14	Vitrified Tiles	Measurements Of Length, Width And Thickness	One Test		1	1
		Water Absorption	One Test		1	1
		Modulus Of Rupture And Breaking Strength	One Test		1	1
15	CERAMIC TILES	MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS	One Test		1	1
		MODULUS OF RUPTURE AND BREAKING STRENGTH	One Test		1	1
16	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
17	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2024-08-20-11**

Date: 01-06-24

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04

Agency : Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060

Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-05-24

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6

Date of test : 04-05-24

Environmental Conditions during test : Temperature: 26˚C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
Technical Manager

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TEST REPORT ON COARSE AGGREGATES

Format No: CP/TF/01

Lab ID	:	**CP-2024-08-20-11** **Date: 06-05-24**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04
Agency	:	Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060
Customer's Reference	:	BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-05-24
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-05-24

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	374	374	2.5	97.5	90-100
3	20 mm	6738	7112	47.4	52.6	30-70
4	10 mm	5274	12386	82.6	17.4	10-35
5	4.75 mm	2081	14467	96.4	3.6	0-5
6	Pan	533	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2024-08-20-11 **Date: 06-05-24**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.51	_
6	Water Absorption(%)	0.25	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2024-08-20-11** **Date: 06-05-24**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04
Agency	:	Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060
Customer Reference	:	BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-24
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-05-24

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	159	159	3.2	96.8	90-100
3	10 mm	2541	2700	54.0	46.0	25-55
4	4.75 mm	2117	4817	96.3	3.7	0-10
5	Pan	183	5000	100	0	–

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2024-08-20-11** **Date: 04-05-24**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04
Agency	:	Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060
Customer's Reference	:	BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-24
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	03-05-24

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe550	8	0.391	612	752	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe550	10	0.616	628	772	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe550	12	0.888	644	768	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe550	16	1.581	672	774	19.0%	Satisfactory	Satisfactory
5	Sunvik	Fe550	20	2.476	684	793	19.0%	Satisfactory	Satisfactory
6	Sunvik	Fe550	25	3.472	697	712	18.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-20-11** **Date: 05/08/2024**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04

Agency : Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060

Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-24

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/08/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M15	08/07/2024	05/08/2024	150.62 X 150.63 X 150.60	22688	8.929	393.6	17.3	17.3
2	Coping Concrete	M15	08/07/2024	05/08/2024	150.83 X 150.60 X 150.40	22716	8.110	398.4	17.5	
3	Coping Concrete	M15	08/07/2024	05/08/2024	150.24 X 150.23 X 150.21	22570	8.587	387.0	17.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-20-11** **Date: 21/05/2024**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04

Agency : Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060

Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-05-24

Customer ID : Second Floor Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Second Floor Column Concrete	M25	14/05/2024	21/05/2024	150.04 X 150.14 X 150.76	22527	8.392	394.6	17.5	17.8
2	Second Floor Column Concrete	M25	14/05/2024	21/05/2024	150.75 X 150.12 X 150.88	22630	8.988	411.4	18.2	
3	Second Floor Column Concrete	M25	14/05/2024	21/05/2024	150.53 X 150.29 X 150.97	22623	8.654	398.0	17.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/05/2024

Lab ID	:	**CP-2024-08-20-11**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04
Agency	:	Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060
Customer's Reference	:	BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-24
Customer ID	:	Head Room Column Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	31/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Head Room Column Concrete	M25	24/05/2024	31/05/2024	150.63 X 150.18 X 150.03	22622	8.278	418.4	18.5	18.4
2	Head Room Column Concrete	M25	24/05/2024	31/05/2024	150.14 X 150.52 X 150.17	22599	8.445	412.2	18.2	
3	Head Room Column Concrete	M25	24/05/2024	31/05/2024	150.49 X 150.76 X 150.04	22688	8.937	418.8	18.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-20-11** **Date: 07/06/2024**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04

Agency : Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060

Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-06-24

Customer ID : Head Room Lintel Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/06/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Head Room Lintel Beam Concrete	M25	31/05/2024	07/06/2024	150.27 X 150.58 X 150.25	22628	8.353	405.1	17.9	18.0
2	Head Room Lintel Beam Concrete	M25	31/05/2024	07/06/2024	150.10 X 150.19 X 150.32	22544	8.990	405.4	18.0	
3	Head Room Lintel Beam Concrete	M25	31/05/2024	07/06/2024	150.39 X 150.88 X 150.64	22692	8.611	414.3	18.3	

* The results obtained are satisfactory as per standard requirements.

Note:

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Samples will be disposed after 30 days from the date of issue of test certificate

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Authorized Signatory
Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-20-11**

Date: 22/06/2024

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04

Agency : Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060

Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-06-24

Customer ID : Head Room Roof Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/06/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Head Room Roof Slab Concrete	M25	15/06/2024	22/06/2024	150.94 X 150.28 X 150.91	22683	8.317	417.7	18.4	18.0
2	Head Room Roof Slab Concrete	M25	15/06/2024	22/06/2024	150.38 X 150.01 X 150.67	22558	8.881	407.6	18.1	
3	Head Room Roof Slab Concrete	M25	15/06/2024	22/06/2024	150.26 X 150.66 X 150.70	22639	8.359	399.0	17.6	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-20-11**

Date: 22/06/2024

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04

Agency : Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060

Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-06-24

Customer ID : Headroom Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/06/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Headroom Beam Concrete	M25	15/06/2024	22/06/2024	150.44 X 150.84 X 150.91	22692	8.320	406.6	17.9	17.8
2	Headroom Beam Concrete	M25	15/06/2024	22/06/2024	150.09 X 150.33 X 150.57	22563	8.471	400.2	17.7	
3	Headroom Beam Concrete	M25	15/06/2024	22/06/2024	150.66 X 150.60 X 150.99	22689	8.552	403.0	17.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2024-08-20-11**

Date: 13/07/2024

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04

Agency : Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060

Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-06-24

Customer ID : Headroom Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/07/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Headroom Beam Concrete	M25	15/06/2024	13/07/2024	150.14 X 150.83 X 150.95	22646	8.435	645.9	28.5	28.4
2	Headroom Beam Concrete	M25	15/06/2024	13/07/2024	150.91 X 150.21 X 150.45	22668	8.223	649.4	28.6	
3	Headroom Beam Concrete	M25	15/06/2024	13/07/2024	150.24 X 150.63 X 150.99	22631	8.796	636.2	28.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-08-20-11**

Date: 03/07/2024

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04

Agency : Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060

Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-06-24

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/07/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	26/06/2024	03/07/2024	150.76 X 150.68 X 150.66	22716	8.695	165.6	7.3	7.5
2	PCC	M10	26/06/2024	03/07/2024	150.52 X 150.48 X 150.35	22650	8.871	163.3	7.2	
3	PCC	M10	26/06/2024	03/07/2024	150.13 X 150.10 X 150.23	22535	8.979	179.8	8.0	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2024-08-20-11**

Date: 06-05-24

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

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TEST REPORT FOR PLASTER SAND

Format No: CP/TF/2017

Lab ID : CP-2024-08-20-11

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Date: 07-05-24

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04

Agency : Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060

Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-05-24

Sample Type : Plaster Sand

Reference to BIS codes : IS: 383 : 2016 (Specification for Coarse and fine Aggregates)
IS1542:1992 (RA 2019) (Sand for Plaster - Specification)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 03-05-24

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	20	20	2	98	95-100
3	2.36 mm	10	30	3	97	95-100
4	1.18 mm	30	60	6	94	90-100
5	600 micron	80	140	14	86	80-100
6	300 micron	315	455	45.5	54.5	20-65
7	150 micron	450	905	90.5	9.5	0-15
8	Pan	95	1000	100	0	---

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-08-20-11**

Date: 08/07/2024

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04

Agency : Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060

Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-07-24

Customer ID : Flooring Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/07/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete	M15	01/07/2024	08/07/2024	150.30 X 150.03 X 150.44	22550	8.846	233.1	10.3	10.4
2	Flooring Concrete	M15	01/07/2024	08/07/2024	150.82 X 150.11 X 150.46	22640	8.590	226.7	10.0	
3	Flooring Concrete	M15	01/07/2024	08/07/2024	150.35 X 150.40 X 150.78	22611	8.554	242.8	10.7	

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Technical Manager

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TEST REPORT OF VITRIFIED TILES

Format No: CP/TF/01

Lab ID : **CP-2024-08-20-11** **Date: 06-05-24**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04

Agency : Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060

Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-05-24

Sample Type/ Size : Vitrified tiles (600X600)mm

Reference to BIS codes : IS 13630 (Part 1) : 2019, IS 15622:2017(RA 2022)

Date of test : 03-05-24

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	600	600	600	600	10.04	10.01	10.08	10.04
2	600	600	600	600	10.01	10.07	10.01	10.01
3	600	600	600	600	10.03	10.05	10.06	10.03
4	600	600	600	600	10.06	10.05	10.08	10.06
5	600	600	600	600	10.08	10.06	10.05	10.08
6	600	600	600	600	10.03	10.07	10.07	10.07
7	600	600	600	600	10.08	10.05	10.08	10.07
8	600	600	600	600	10.02	10.05	10.04	10.05
9	600	600	600	600	10.04	10.04	10.02	10.04
10	600	600	600	600	10.04	10.01	10.05	10.04
Average	**600**		**600**		**10.05**			

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
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TEST REPORT OF CERAMIC TILES

Lab ID	:	**CP-2024-08-20-11** **Date: 09-05-24**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04
Agency	:	Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060
Customer's Reference	:	BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-24
Sample Type/ Size	:	Ceramic tiles (300X300)mm
Reference to BIS codes	:	IS 13630 (part 1) : 2019, IS 15622:2018
Date of test	:	03-05-24

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	300	300	6.04	6.01	6.08	6.04
2	300	300	300	300	6.01	6.07	6.01	6.01
3	300	300	300	300	6.03	6.05	6.06	6.03
4	300	300	300	300	6.06	6.05	6.08	6.06
5	300	300	300	300	6.08	6.06	6.05	6.08
6	300	300	300	300	6.03	6.07	6.07	6.07
7	300	300	300	300	6.08	6.05	6.08	6.07
8	300	300	300	300	6.02	6.05	6.04	6.05
9	300	300	300	300	6.04	6.04	6.02	6.04
10	300	300	300	300	6.04	6.01	6.05	6.04
Average	**300**		**300**		**6.05**			

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Format No: CP/TF/01

Lab ID	:	**CP-2024-08-20-11**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. **Date: 07-05-24**
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04
Agency	:	Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060
Customer's Reference	:	BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-24
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	03-05-24

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	199	200	16000	32.471	2029.5	1987.3	Not less than 1800Kg/m^3
2	401	203	200	16281	31.682	1946.0		
3	403	200	200	16120	32.020	1986.4		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2024-08-20-11**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. **Date: 07-05-24**
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04
Agency	:	Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060
Customer's Reference	:	BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-24
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	03-05-24

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	153	200	12240	22.748	1858.5	1897.9	Not less than 1800Kg/m^3
2	399	149	201	11950	23.085	1931.8		
3	404	153	198	12239	23.294	1903.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	24.91	23.69	4.89	4.25	Shall not be more than 10% by mass
2	25.57	24.48	4.28		
3	24.44	23.57	3.59		

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Lab ID : **CP-2024-08-20-11**

Date: 07-05-24

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	404	152	201	
2	403	152	203	
3	402	151	202	
4	403	152	203	
5	401	151	203	
6	400	149	201	
7	401	149	203	
8	401	149	202	
9	402	150	203	
10	400	152	202	
11	403	151	201	**Length : ± 5mm** **Breadth : ± 3mm** **Height : ± 3mm**
12	400	151	202	
13	403	149	200	
14	403	153	199	
15	403	151	200	
16	400	151	200	
17	402	152	201	
18	399	152	203	
19	403	152	201	
20	401	152	203	
Average of 20	**402**	**151**	**202**	

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : **CP-2024-08-20-11**

Date: 07-05-24

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Floor to Ambedkar Samudaya Bhavana in Allalasandra in Ward No.04

Agency : Sri. Manoj Naik B M, 58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060

Customer's Reference : BBMP/EE/YNK.D/KPPP-12/W.O/44/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-05-24

Sample Type/Size : Solid concrete blocks size (400X100X200)mm

Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)

Date of test : 03-05-24

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	100	202	8080	17.399	2153.3	2095.5	Not less than 1800Kg/m^3
2	404	102	200	8242	16.027	1944.7		
3	403	102	200	8221	17.992	2188.5		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	18.91	17.99	4.89	4.25	Shall not be more than 10% by mass
2	19.57	18.74	4.28		
3	18.94	18.26	3.59		

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Lab ID : CP-2024-08-20-11

Date: 07-05-24

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	101	40405	162.6	4.0	4.3
2	403	101	40638	167.7	4.1	
3	401	99	39815	180.8	4.5	
4	399	100	39910	167.6	4.2	
5	402	100	40225	174.9	4.3	
6	404	101	40706	180.9	4.4	
7	399	100	40009	182.8	4.6	
8	403	103	41464	169.6	4.1	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

The results pertain to the samples received and tested.
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTU ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | S SERVICES